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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,792	08/29/2003	Sung-Kyung Jang	P-0577	1879
34610 7590 11/26/2008 KED & ASSOCIATES, LLP			EXAMINER	
P.O. Box 22120	00	ROBERTS, BRIAN S		
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			2419	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/650,792	JANG, SUNG-KYUNG			
		Examiner	Art Unit			
		BRIAN ROBERTS	2419			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on 27 Or	etoher 2008				
· · ·	Responsive to communication(s) filed on <u>27 October 2008</u> . This action is FINAL . 2b) This action is non-final.					
3)□	/					
J)الــا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under z	x parte Quayle, 1900 C.D. 11, 40	0.0.210.			
Dispositi	on of Claims					
4)🛛	Claim(s) <u>1-38</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
•	6)⊠ Claim(s) <u>1-38</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	election requirement.				
٥,١						
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Art Unit: 2419

DETAILED ACTION

Claims 1-38 remain pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over ETSI TS 125 322 version 5.1.0 (2002-06) in view of Le et al. (US 6744730)

- In reference to claim 1

In Figure 4.4 and 9.10, ETSI TS 125 322 teaches a data transfer controlling method in a radio system which transmits and receives data in an acknowledgement mode that includes receiving data units having serial numbers lying in a range of a receiving window (pg. 27 9.2.2.3), transmitting window size control information (pg. 33 9.2.2.11.3) from a receiver to a transmitter and varying a transmitting window size by the transmitter according to the transmitted window size control information wherein the window size information includes either window size upward setting information, window size maintaining information, or window size downward setting information (pg. 33 9.2.2.11.3) and is transmitted simultaneously with acknowledgement information (pg. 32 9.2.2.11.2).

Application/Control Number: 10/650,792

Page 3

Art Unit: 2419

ETSI TS 125 322 does not explicitly teach transmitting window size control information from a receiver to a transmitter by a state of a receiving buffer.

In Figure 1, Le et al. teaches transmitting window size control information from a receiving host (18) to a sending host (10) based on a state of a receiving buffer that corresponds to the a receiving window. The receiving host (18) instructs the sending host (10) to increase the window size when the receiving buffer is near empty and instructs the sending host (10) to decrease the window size when the receiving buffer is near full. (column 2 lines 23-41)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the data unit containing the acknowledgement information of ETSI TS 125 322 to include transmitting window size control information from a receiver to a transmitter by a state of a receiving buffer that corresponds to a receiving window as suggested by Le et al. because it allows the window size data transmission rate to be varied in order to prevent buffer overflow or under utilization of network resources.

- In reference to claim 2

In Figure 4.4, ETSI TS 125 322 further teaches the transmitter is a network and the receiver is a terminal. (pg. 15 4.2.1.3.1 .; 4.2.1.3.2)

- In reference to claim 3, 14, 27

In Figure 9.10, ETSI TS 125 322 further teaches the window size control information is contained in status information to be transmitted. (pg. 33 9.2.2.11.3)

Art Unit: 2419

- In reference to claim 4, 26

In Figure 9.10, ETSI TS 125 322 further teaches the window size control information is a window size super-field (SUFI). (pg. 33 9.2.2.11.3)

- In reference to claim 5, 16, 28-29

In Figure 9.10, ETSI TS 125 322 further teaches the status information further includes an ACK SUFI. (pg 31 9.2.2.11)

- In reference to claim 6, 13, 23

In Figure 9.10, ETSI TS 125 322 further teaches the receiver adjusts a receiving window size to be the same as the transmitting window size. (pg. 33 9.2.2.11.3)

- In reference to claim 7, 8, 17-19, 24-25

ETSI TS 125 322 teaches a system and method that covers substantially all limitations of the parent claim.

ETSI TS 125 322 does not teach the window size control information includes window size downward setting information if a receiving buffer is in an overflow state.

In Figure 1, Le et al. teaches transmitting window size control information from a receiving host (18) to a sending host (10) based on a state of a receiving buffer. The receiving host (18) instructs the sending host (10) to increase the window size when the

receiving buffer is near empty and instructs the sending host (10) to decrease the window size when the receiving buffer is near full. (column 2 lines 23-41)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the window size control information of ETSI TS 125 322 to include window size downward setting information if a receiving buffer is in an overflow state as suggested by Le et al. because it allows the window size to be varied in order to prevent buffer overflow.

- In reference to claim 9, 10, 20-21, 30-31

ETSI TS 125 322 teaches a system and method that covers substantially all limitations of the parent claim.

ETSI TS 125 322 does not teach the window size control information includes window size upward setting information if a receiving buffer is not in an overflow state.

In Figure 1, Le et al. teaches transmitting window size control information from a receiving host (18) to a sending host (10) based on a state of a receiving buffer. The receiving host (18) instructs the sending host (10) to increase the window size when the receiving buffer is near empty and instructs the sending host (10) to decrease the window size when the receiving buffer is near full. (column 2 lines 23-41)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the window Size control information of ETSI TS 125 322 to include window size upward setting information if a receiving buffer is not in an overflow

Art Unit: 2419

state as suggested by Le et al. because it allows the window size to be varied in order to prevent utilization of network resources.

- In reference to claim 11

In Figure 4.4 and 9.10, ETSI TS 125 322 teaches a data transfer controlling method in a radio system which controls a flow of a radio link and includes an entity operated in an acknowledgement mode, wherein window size update information (pg. 33 9.2.2.11.3) is transmitted from a receiving entity to a transmitting wherein acknowledgement information (pg. 32 9.2.2.11.2) is transmitted simultaneously with the window size control information, the acknowledgement information controlling transmission of additional data units from the transmitter to the receiver, transmission of the additional data units controlled based on window size update information(pg. 15 4.2.1.3.1 .; 4.2.1.3.2) wherein the window sized update information includes either window size upward setting information, window size maintaining information, or window size downward setting information (pg. 33 9.2.2.11.3)

ETSI TS 125 322 does not teach transmitting window size control information from a receiver to a transmitter by a state or processing speed by the receiver of data units stored in a receiving buffer.

In Figure 1, Le et al. teaches transmitting window size control information from a receiving host (18) to a sending host (10) based on a state of a receiving buffer. The receiving host (18) instructs the sending host (10) to increase the window size when the

Page 7

receiving buffer is near empty and instructs the sending host (10) to decrease the window size when the receiving buffer is near full. (column 2 lines 23-41)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the data unit containing the acknowledgement information of ETSI TS 125 322 to include transmitting window size control information from a receiver to a transmitter by a state of a receiving buffer as suggested by Le et al. because it allows the window size data transmission rate to be varied in order to prevent buffer overflow or under utilization of network resources.

- In reference to claim 12

In Figure 4.4, ETSI TS 125 322 further teaches the entity is a radio link control (RLC). (pg. 15 4.2.1.3.1.; 4.2.1.3.2)

- In reference to claim 15

In Figure 9.10, ETSI TS 125 322 further teaches the window size update information is included in a window size super-field (SUFI). (pg. 33 9.2.2.11.3)

- In reference to claim 22

In Figure 4.4 and 9.10, ETSI TS 125 322 teaches a data transfer controlling method in a radio data transfer of a mobile communication system that includes receiving atleast one protocol data unit (PDU) from a transmitting RLC entity; transmitting window size control (pg. 33 9.2.2.11.3) to the transmitting RLC entity and

varying a transmitting window size according to the window size control information by the transmitting RLC entity and transmitting additional PDUs to be stored in a receiving buffer wherein acknowledgement information (pg. 32 9.2.2.11.2) is transmitted simultaneously with the window size control information, the acknowledgement information controlling transmission of additional PDUs based on the varied transmitting window (pg. 15 4.2.1.3.1.; 4.2.1.3.2) includes either window size upward setting information, window size maintaining information, window size downward setting information (pg. 33 9.2.2.11.3).

ETSI TS 125 322 does not teach transmitting window size control information from a receiver to a transmitter by a state of a receiving buffer.

In Figure 1, Le et al. teaches transmitting window size control information from a receiving host (18) to a sending host (10) based on a state of a receiving buffer. The receiving host (18) instructs the sending host (10) to increase the window size when the receiving buffer is near empty and instructs the sending host (10) to decrease the window size when the receiving buffer is near full. (column 2 lines 23-41)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the data unit containing the acknowledgement information of ETSI TS 125 322 to include transmitting window size control information from a receiver to a transmitter by a state of a receiving buffer as suggested by Le et al. because it allows the window size and data transmission rate to be varied in order to prevent buffer overflow or under utilization of network resources.

Art Unit: 2419

- In reference to claim 32

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially covers all limitations of the parent claims. ETSI TS 125 322 further teaches the acknowledgement information is included in a first super-field (pg. 32 9.2.2.11.2 and the window size control information is included in a second super-field (pg. 33 9.2.2.11.3) within a status PDU from the receiver to the transmitter. (pg. 15 4.2.1.3.1.; 4.2.1.3.2)

- In reference to claim 33

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially covers all limitations of the parent claims. ETSI TS 125 322 further teaches the transmitting window size is varied to a size which allows previously received data stored in the receiving buffer to be arranged in sequence without said additional data being lost in the receiving buffer. (pg. 15 4.2.1.3.1; 4.2.1.3.2)

- In reference to claim 34

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially, covers all limitations of the parent claims. ETSI TS 125 322 further teaches adjusting a window size of the receiving buffer based on the window size control information. (pg. 36; 9.2.2.11.8)

In reference to claim 35

Art Unit: 2419

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially covers all limitations of the parent claims. ETSI TS 125 322 further teaches the varied window size of the receiving buffer (pg. 36 9.2.211.8) can be adjusted to be equal to the transmitting window size (pg. 33 9.2.2.11.3; 9.4) varied based on the window size control information.

- In reference to claim 36-37

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially covers all limitations of the parent claims. ETSI TS 125 322 further teaches the window size control information includes window maintaining information. (pg. 33 9.2.2.11.3)

- In reference to claim 38

The combination of ETSI TS 125 322 and Le et al. teaches a system and method that substantially covers all limitations of the parent claims. ETSI TS 125 322 further teaches the window size update information includes window maintaining information. (pg. 33 9.2.2.11.3)

Response to Arguments

Applicant's arguments filed 04/25/2008 have been fully considered but they are not persuasive.

Application/Control Number: 10/650,792

Art Unit: 2419

In the Remarks on pg. 11 of the amendment, the Applicant contends that the
cited references do not teach that the window size control information
includes either window size upward setting information, window size
maintaining information, or window size downward setting information and is
not transmitted simultaneously with acknowledgement information.

Page 11

• The Examiner respectfully disagrees. In the ETSI publication, Figure 9.4 explicitly shows a STATUS PDU containing multiple super fields (pg. 25). As later explained in the ETSI publication, the super fields may include an ACK field (pg. 32 9.2.2.11.2) and a window size field (pg. 33 9.2.2.11.3). The window size field contains information for setting the window size of the receiving window. The window size may be set either upward, downward or maintained depending on the window size to be transmitted in the STATUS PDU relative to the current window size. The STATUS PDU containing both the window control information and acknowledgement information is then simultaneously transmitted from a receiver entity to a transmitter entity.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Art Unit: 2419

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN ROBERTS whose telephone number is (571)272-3095. The examiner can normally be reached on M-F 10:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BSR 11/21/2008

/Wing F. Chan/ Supervisory Patent Examiner, Art Unit 2419 11/22/08